

**ABSTRACT**

The present invention provides for the dynamic optimization of a multi-service access device in response to the current mix of data traffic being presented to the access device. The access device includes an analyzer and an optimizer. The analyzer is used to analyze a  
5 current mixture of a plurality of different data traffic types to create analyzer data. The optimizer is coupled to the analyzer. The optimizer is used to optimize system parameters of the access device, based upon the analyzer data, such that the access device is continuously dynamically optimized in response to the changing mixtures of the different data traffic types presented to the access device.

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